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### 1 [Balancing energy efficiency and quality of aggregate data in sensor networks](#)

A. Sharaf, Jonathan Beaver, Alexandros Labrinidis, K. Chrysanthis  
 December 2004 The VLDB Journal — The International Journal on Very Large Data Bases. Volume 13 Issue 4  
 Publisher: Springer-Verlag New York, Inc.

 Full text available: [pdf\(370.41 KB\)](#) [Additional Information: full citation, abstract, cited by, index terms](#)

In-network aggregation has been proposed as one method for reducing energy consumption in sensor networks. In this paper, we explore two ideas related to further reducing energy consumption in the context of in-network aggregation. The first is by <i>influencing ...

Keywords: In-network query processing, Power-aware computing, Semantic routing, Sensor networks

### 2 [Optimized query planning of continuous aggregation queries in dynamic data dissemination networks](#)

Rajeev Gupta, Krithi Ramamritham  
 May 2007 WWW '07: Proceedings of the 16th international conference on World Wide Web  
 Publisher: ACM

 Full text available: [pdf\(331.41 KB\)](#) [Additional Information: full citation, abstract, references, index terms](#)

Continuous queries are used to monitor changes to time varying data and to provide results useful for online decision making. Typically a user desires to obtain the value of some aggregation function over distributed data items, for example, to know ...

Keywords: content distribution networks, continuous aggregation queries, data coherency, dynamic data, query dissemination cost

### 3 [Fundamental bounds on the accuracy of network performance measurements](#)

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Matthew Roughan

June 2005 ACM SIGMETRICS Performance Evaluation Review, Volume 33 Issue 1

Publisher: ACM

Full text available: pdf(334.86 KB)

Additional Information: full citation, abstract,

references, cited by, index terms

This paper considers the basic problem of "how accurate can we make Internet performance measurements". The answer is somewhat counter-intuitive in that there are bounds on the accuracy of such measurements, no matter how many probes we can use in a ...

Keywords: error estimation, internet measurement, load balancing, measurement planning, network performance



#### 4 [An end-system approach to mobility management for 4G networks and its application to thin-client computing](#)

Leo Patanapongpibul, Glenford Mapp, Andy Hopper

July 2006 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 10 Issue 3

Publisher: ACM

Full text available: pdf(1.48 MB)

Additional Information: full citation, abstract, references, index terms

This paper describes work centred around providing greater autonomy for mobile nodes to roam in Mobile IPv6 wireless networks based on a new handoff mechanism. This technique, called the Client-based Handoff, enables mobile nodes to roam in foreign wireless ...



#### 5 [Trade-off between energy savings and source-to-sink delay in data dissemination for wireless sensor networks](#)

Habib M. Ammari, Sajal K. Das

October 2005 MSWiM '05: Proceedings of the 8th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems

Publisher: ACM

Full text available: pdf(393.55 KB)

Additional Information: full citation, abstract,

references, index terms

Wireless sensor networks (WSNs) consist of large numbers of unattended sensors with limited storage, energy (battery power) and computational and communication capabilities. Because battery power is the most crucial resource for sensor nodes and delay ...

Keywords: energy savings, source-to-sink delay, wireless sensor networks



#### 6 [Network Management & Monitoring with Linux](#)

David Guerrero

June 1997 Linux Journal, Volume 1997 Issue 38es

Publisher: Specialized Systems Consultants, Inc.

Full text available:

Additional Information: full citation, abstract,

 [html\(26.92 KB\)](#)[references, index terms](#)

Monitoring network activity is a necessity for today's managers. Here are some handy and easily accessible tools for doing so


## 7 Fundamental bounds on the accuracy of network performance measurements



Matthew Roughan

June 2005 SIGMETRICS '05: Proceedings of the 2005 ACM SIGMETRICS international conference on Measurement and modeling of computer systems

Publisher: ACM

**Additional Information:** full citation, abstract,Full text available:  [pdf\(334.86 KB\)](#)[references, cited by, index terms](#)

This paper considers the basic problem of "how accurate can we make Internet performance measurements". The answer is somewhat counter-intuitive in that there are bounds on the accuracy of such measurements, no matter how many probes we can use in a ...

**Keywords:** error estimation, internet measurement, load balancing, measurement planning, network performance


## 8 Resource discovery in locality-aware group-based semantic overlay of peer-to-peer networks



Yinglin Sun, Liang Sun, Xiaohui Huang, Yu Lin

May 2006 InfoScale '06: Proceedings of the 1st international conference on Scalable information systems

Publisher: ACM

**Additional Information:** full citation, abstract,Full text available:  [pdf\(906.67 KB\)](#)[references, index terms](#)

The resource discovery is a critical component of the P2P file-sharing network. However, because of the huge overhead of locating operation or management, neither the traditional methods, such as Flooding, EPS and Random Walks, provide high performance ...

## 9 CANDID: preventing sql injection attacks using dynamic candidate evaluations



Sruthi Bandhakavi, Prithvi Bisht, P. Madhusudan, V. N. Venkatakrishnan  
October 2007 CCS '07: Proceedings of the 14th ACM conference on Computer and communications security


Publisher: ACM

**Additional Information:** full citation, abstract,Full text available:  [pdf\(426.01 KB\)](#)[references, index terms](#)

SQL injection attacks are one of the topmost threats for applications written for the Web. These attacks are launched through specially crafted user input on web applications that use low level string operations to construct SQL queries. In this work, ...


**Keywords:** dynamic monitoring, retrofitting code, sql injection attacks, symbolic evaluation

10 [Dynamic program insertion in high quality video over IP](#)

 Taehyun Kim, Jack Brassil

June 2003 NOSSDAV '03: Proceedings of the 13th international workshop on Network and operating systems support for digital audio and video


Publisher: ACM

Full text available:  [pdf\(269.10 KB\)](#) **Additional Information:** full citation, abstract, references, index terms

We introduce an overlay network architecture and signaling mechanism that permit program insertions in live, high quality video streams transmitted over IP networks. We describe the implementation of an application proxy that dynamically inserts pre-recorded ...


**Keywords:** content delivery networks (CDNs), digital television (DTV), multimedia signaling, program and system information protocol (PSIP), program cues, real-time transport protocol (RTP), video streaming

11 [Design and evaluation of a conit-based continuous consistency model for replicated services](#)

 Haifeng Yu, Amin Vahdat

August 2002 ACM Transactions on Computer Systems (TOCS), Volume 20 Issue 3


Publisher: ACM

Full text available:  [pdf\(406.85 KB\)](#) **Additional Information:** full citation, abstract, references, cited by, index terms

The tradeoffs between consistency, performance, and availability are well understood. Traditionally, however, designers of replicated systems have been forced to choose from either strong consistency guarantees or none at all. This paper explores the ...


**Keywords:** Conit, consistency model, continuous consistency, network services, relaxed consistency, replication

12 [Using graphic turing tests to counter automated DDoS attacks against web servers](#)

 William G. Morein, Angelos Stavrou, Debra L. Cook, Angelos D. Keromytis, Vishal Misra, Dan Rubenstein

October 2003 CCS '03: Proceedings of the 10th ACM conference on Computer and communications security


Publisher: ACM

Full text available:  [pdf\(256.83 KB\)](#) **Additional Information:** full citation, abstract, references, cited by, index terms

We present WebSOS, a novel overlay-based architecture that provides guaranteed access to a web server that is targeted by a denial of service (DoS) attack. Our approach exploits two key characteristics of the web environment: its design around a human-centric ...

Keywords: Java, graphic turing tests, web proxies

13 [An open architecture for next-generation telecommunication services](#)


 Gregory W. Bond, Eric Cheung, K. Hal Purdy, Pamela Zave, J. Christopher Ramming

February 2004 ACM Transactions on Internet Technology (TOIT).

Volume 4 Issue 1

Publisher: ACM

Additional Information: [full citation](#), [abstract](#),


Full text available:  [pdf\(237.24 KB\)](#)

[references](#), [cited by](#), [index terms](#)

An open (in the sense of extensible and programmable) architecture for IP telecommunications must be based on a comprehensive strategy for managing feature interaction. We describe our experience with BoxOS, an IP telecommunication platform that implements ...

Keywords: Component architectures, Intelligent Network architecture, Session Initiation Protocol, electronic mail, feature interaction, instant messaging, multimedia systems, network addressing, network interoperation, network optimization, network protocols, service creation

14 [A persistent chat space for work groups: the design, evaluation and deployment of loops](#)

 Thomas Erickson, Wendy A. Kellogg, Mark Laff, Jeremy Sussman, Tracee Vetting Wolf, Christine A. Halverson, Denise Edwards

June 2006 DIS '06: Proceedings of the 6th conference on Designing Interactive systems

Publisher: ACM

Additional Information: [full citation](#), [abstract](#),


Full text available:  [pdf\(402.49 KB\)](#)

[references](#), [index terms](#)

Loops is a text-based computer mediated communication system aimed at small- to medium-sized corporate work groups. We begin by discussing the goals of the system and the rationale behind its design, particularly its treatment of non-conversational text. ...

Keywords: CMC, CSCW, IM, awareness, chat, conversation, design, instant messaging, online environments, social proxy

15 [A framework for collaborative control of applications](#)

 James R. Miller, Serhan Yengulalp, Patrick L. Sterner

March 2005 SAC '05: Proceedings of the 2005 ACM symposium on Applied computing

Publisher: ACM

Additional Information: [full citation](#), [abstract](#),


Full text available:  [pdf\(439.48 KB\)](#)

[references](#), [index terms](#)

Highly interactive applications are increasingly being used in decision support systems. Highly interactive applications are increasingly being used in decision support systems. Frequently these applications are run in collaborative environments in which ...


**Keywords:** collaborative techniques, remote application control

16 [Fault-tolerance in the Borealis distributed stream processing system](#)

 Magdalena Balazinska, Hari Balakrishnan, Samuel Madden, Michael Stonebraker

June 2005 SIGMOD '05: Proceedings of the 2005 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available:  [pdf\(612.60 KB\)](#) **Additional Information:** full citation, abstract, references, cited by


We present a replication-based approach to fault-tolerant distributed stream processing in the face of node failures, network failures, and network partitions. Our approach aims to reduce the degree of inconsistency in the system while guaranteeing that ...

17 [DHTTP: an efficient and cache-friendly transfer protocol for the web](#)

Michael Rabinovich, Hua Wang

December 2004 IEEE/ ACM Transactions on Networking (TON), Volume 12 Issue 6


Publisher: IEEE Press

Full text available:  [pdf\(487.71 KB\)](#) **Additional Information:** full citation, abstract, references, index terms, review

Today's HTTP carries Web interactions over client-initiated TCP connections. An important implication of using this transport method is that interception caches in the network violate the end-to-end principle of the Internet, which severely limits deployment ...

**Keywords:** HTTP protocol, interception caching, internet, web performance

18 [Holistic aggregate resource environment](#)

 Eric Van Hensbergen, Charles Forsyth, Jim McKie, Ron Minnick


January 2008 ACM SIGOPS Operating Systems Review, Volume 42 Issue 1

Publisher: ACM

Full text available:  [pdf\(318.14 KB\)](#) **Additional Information:** full citation, abstract, references

Within a few short years, we can expect to be dealing with multi-million-thread programs running on million-core systems [16]. This will no doubt stress the contemporary HPC software model which was developed in a time when 512 cores was a large number. ...


19 [A statistical approach to risk mitigation in computational markets](#)

 Thomas Sandholm, Kevin Lai

June 2007 HPDC '07: Proceedings of the 16th international symposium on High performance distributed computing

Publisher: ACM

**Additional Information:** full citation, abstract, references,

Full text available:  pdf(1.66 MB)[index terms](#)

We study stochastic models to mitigate the risk of poor Quality-of-Service (QoS) in computational markets. Consumers who purchase services expect both price and performance guarantees. They need to predict future demand to budget for sustained performance ...

**Keywords:** QoS, resource allocation, service level management


## 20 Self-healing BPEL processes with Dynamo and the JBoss rule



Luciano Baresi, Sam Guinea, Liliana Pasquale

September 2007 ESSPE '07: International workshop on Engineering of software services for pervasive environments: in conjunction with the 6th ESEC/FSE joint meeting

Publisher: ACM

Full text available:  pdf(571.67 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#)

Many emerging domains such as ambient intelligence, context-aware applications, and pervasive computing are embracing the assumption that their software applications will be deployed in an open-world. By adopting the Service Oriented Architecture paradigm, ...

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